

PS-6750

*UK Model
AEP Model*



STEREO TURNTABLE SYSTEM

SPECIFICATIONS

TURNTABLE

Platter: 32 cm (12 $\frac{5}{8}$ "), diecast aluminum alloy
Drive System: DC servo-controlled motor, direct drive
Speeds: 33 $\frac{1}{3}$ and 45 rpm
Speed Control Range: ± 4 %
Starting Time: Within $\frac{1}{2}$ turn (33 $\frac{1}{3}$ rpm)
Wow and Flutter: Less than ± 0.045 % (DIN 45 507 weighted)
S/N Ratio: Better than 70 dB (DIN 45 539, B-curve weighted)

TONEARM

Type: Statically balanced
Pivot to Stylus Length: 237 mm (9 $\frac{3}{8}$ ")
Overall Arm Length: 320 mm (12 $\frac{5}{8}$ ")
Overhang: 15 mm ($\frac{5}{8}$ ")
Tracking Error: $+2^{\circ} 30'$, $-1^{\circ} 20'$
Tracking-force Adjustment Range: 0 – 3 g
Arm Height Adjustment Range: 0 – 7 mm

Shell Weight: 10.5 g
Cartridge Weight Range: 4 – 10 g (without extra weight)
10 – 15 g (with extra weight)

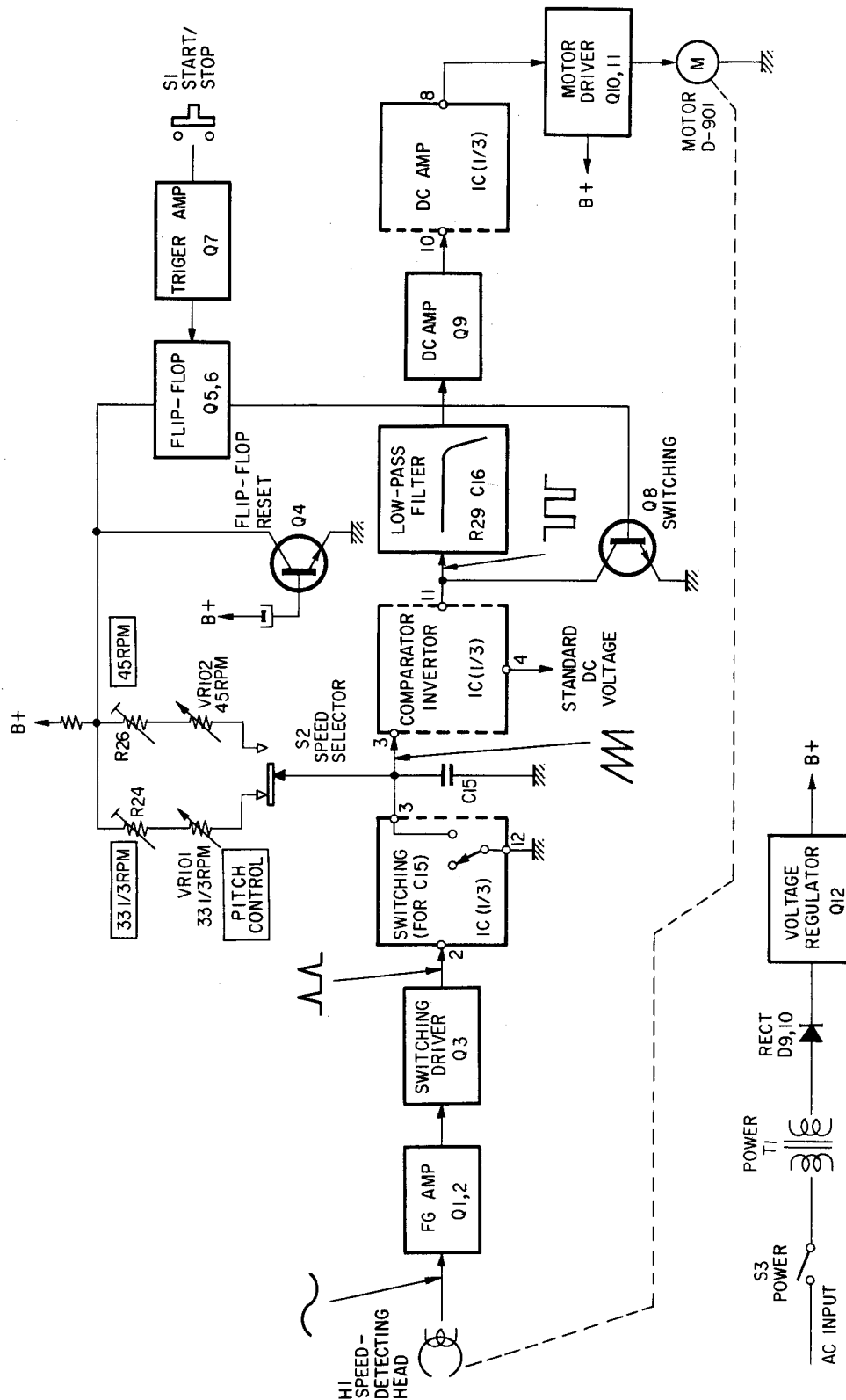
GENERAL

Power Requirements: 110, 127, 220 or 240 V ac, 50/60 Hz
Power Consumption: 6 W
Dimensions: Approx. 442(w) x 182(h) x 390(d) mm
(Approx. 17 $\frac{3}{8}$ (w) x 7 $\frac{3}{16}$ (h) x 15 $\frac{3}{8}$ (d) inches)
including projecting parts and controls
Weight: Approx. 10 kg (22 lb), net
Approx. 13 kg (28 lb 10 oz), with shipping carton

SONY[®]

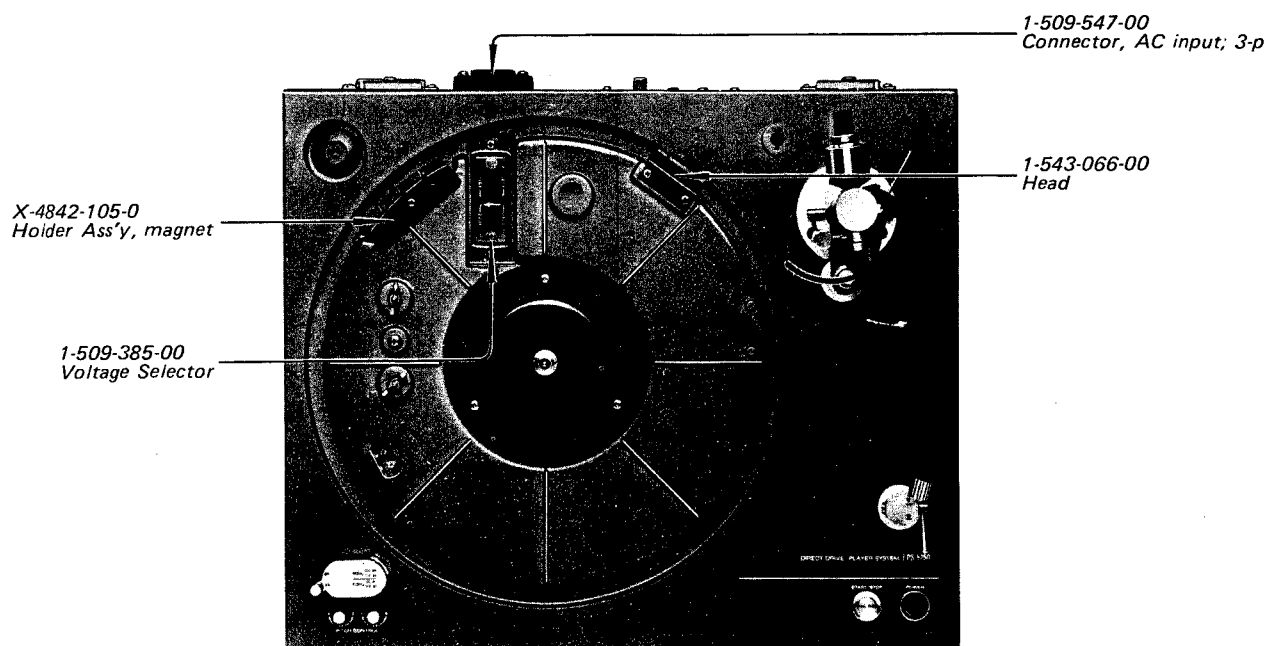
SERVICE MANUAL

SECTION 1 BLOCK DIAGRAM

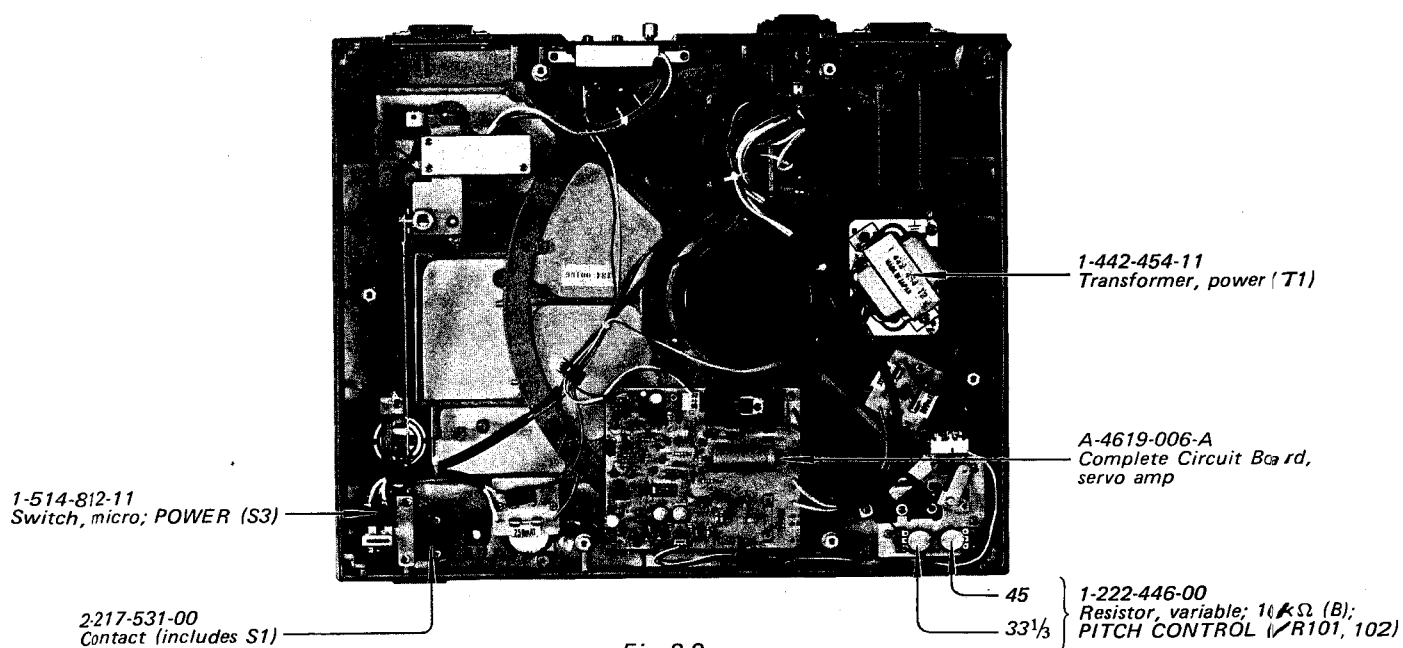


SECTION 2 EXTERNAL AND INTERNAL VIEWS

2-1. EXTERNAL VIEW



2-2. INTERNAL VIEW



SECTION 3 REMOVAL, REPLACEMENT AND ADJUSTMENT

3-1. TURNTABLE REMOVAL

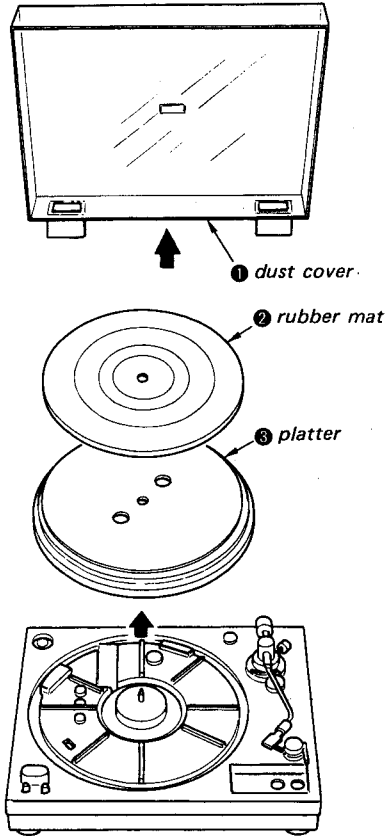


Fig. 3-1.

3-2. BOTTOM PANEL REMOVAL

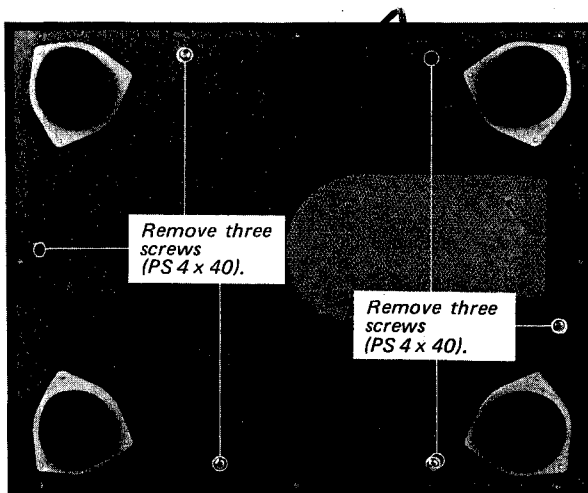


Fig. 3-2.

3-3. TONEARM REPLACEMENT

1. Remove the shell head and the counter weight from the tonearm.
2. Remove the shielding cover (screw 1).
3. Unsolder the five lead wires at the terminals.

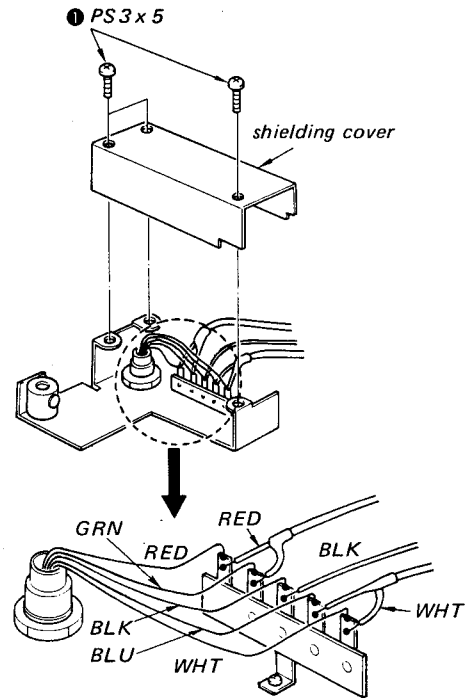


Fig. 3-3.

4. Remove 2, 3, 4.
5. Replace the tonearm.

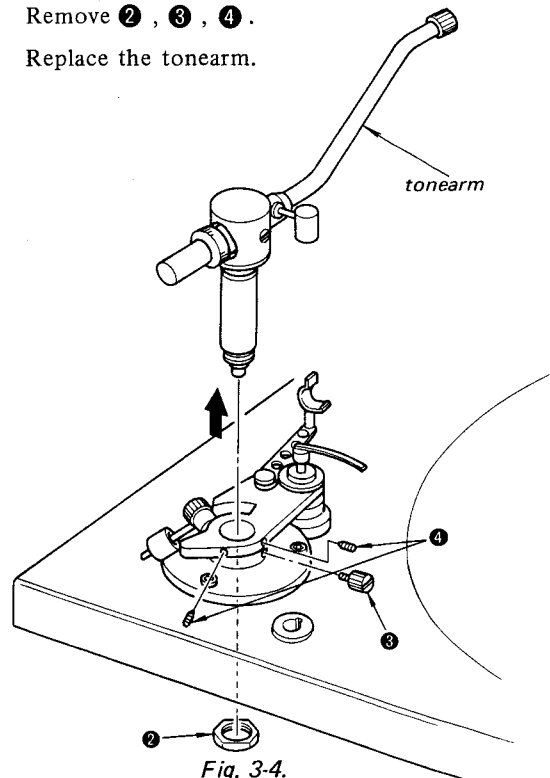


Fig. 3-4.

3-4. MOTOR REPLACEMENT

1. Disconnect the two lead wires from the servo amp board.
2. Remove the two screws (❶).

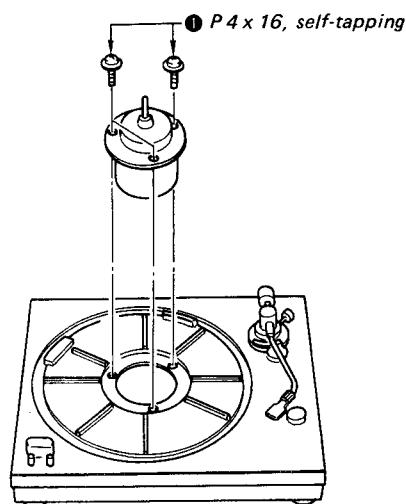


Fig. 3-5.

3-5. TONEARM HEIGHT ADJUSTMENT

1. Place a record on the turntable.
2. Lift the lifter lever up (▽), and bring the arm over the record.
3. Loosen the arm height adjustment lever. Holding the lifter base, lift the arm axis up and down so that the stylus tip is 4-7 mm ($\frac{5}{32}$ " - $\frac{9}{32}$ ") above the record and secure the arm axis by turning the arm height adjustment lever toward right as shown below.

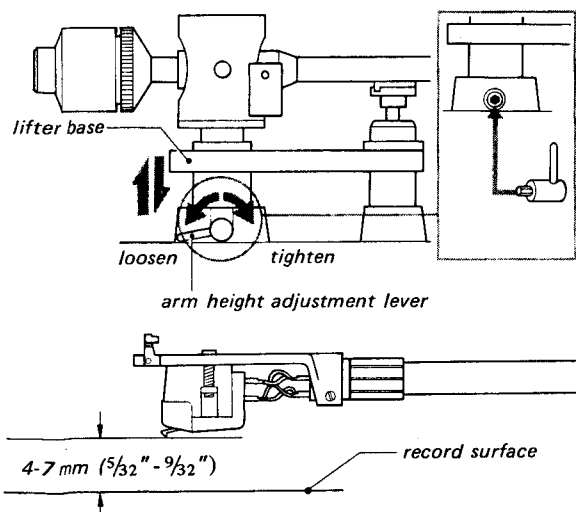


Fig. 3-6.

4. Ensure that the stylus touches the record surface when lowered and there exists approximately 1 mm ($\frac{3}{64}$ ") space between the arm pipe and arm lifter.

If not, adjust the height of the arm lifter by loosening the arm lifter screw.

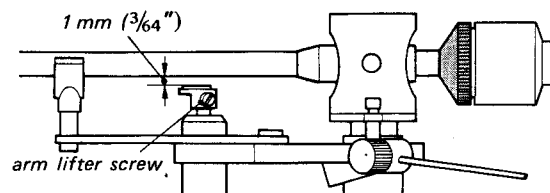


Fig. 3-7.

3-6. SPEED CONTROL ADJUSTMENT

1. Turn the two pitch control knobs on the frame to the mechanical-mid position.
2. Adjust SPEED CONTROL - R24 (33 $\frac{1}{3}$ rpm), R26 (45 rpm) - shown in Fig. 3-8 so that the stroboscope pattern appears stationary.

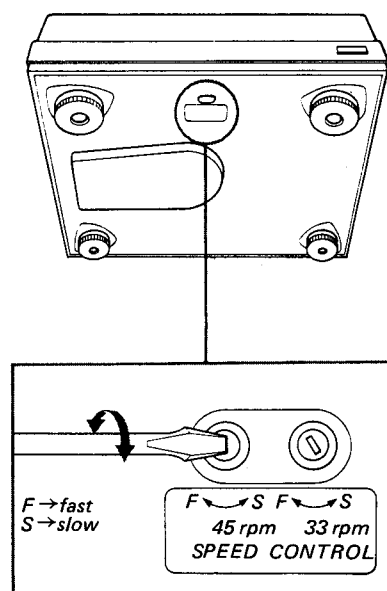
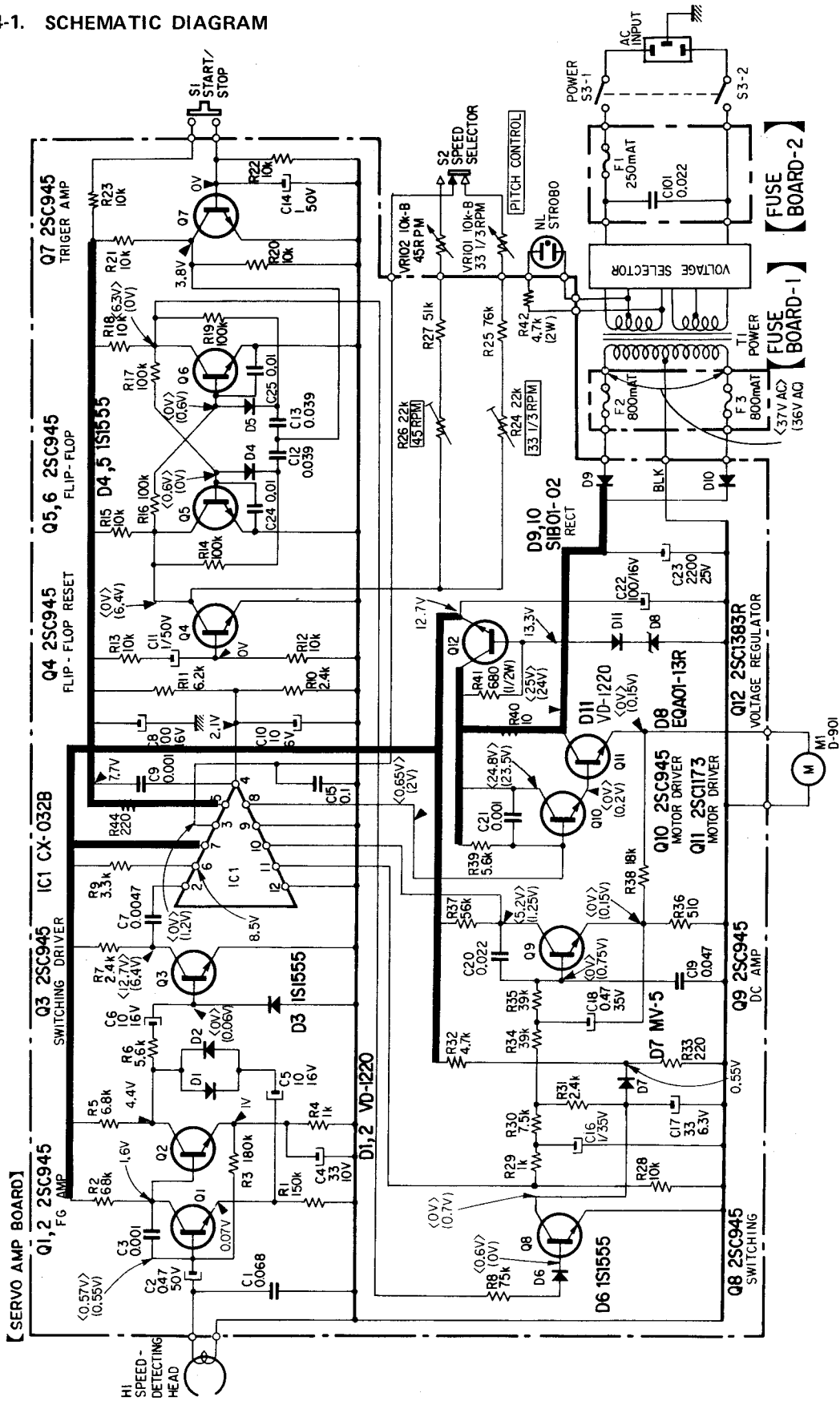


Fig. 3-8.

SECTION 4
DIAGRAMS

4-1. SCHEMATIC DIAGRAM



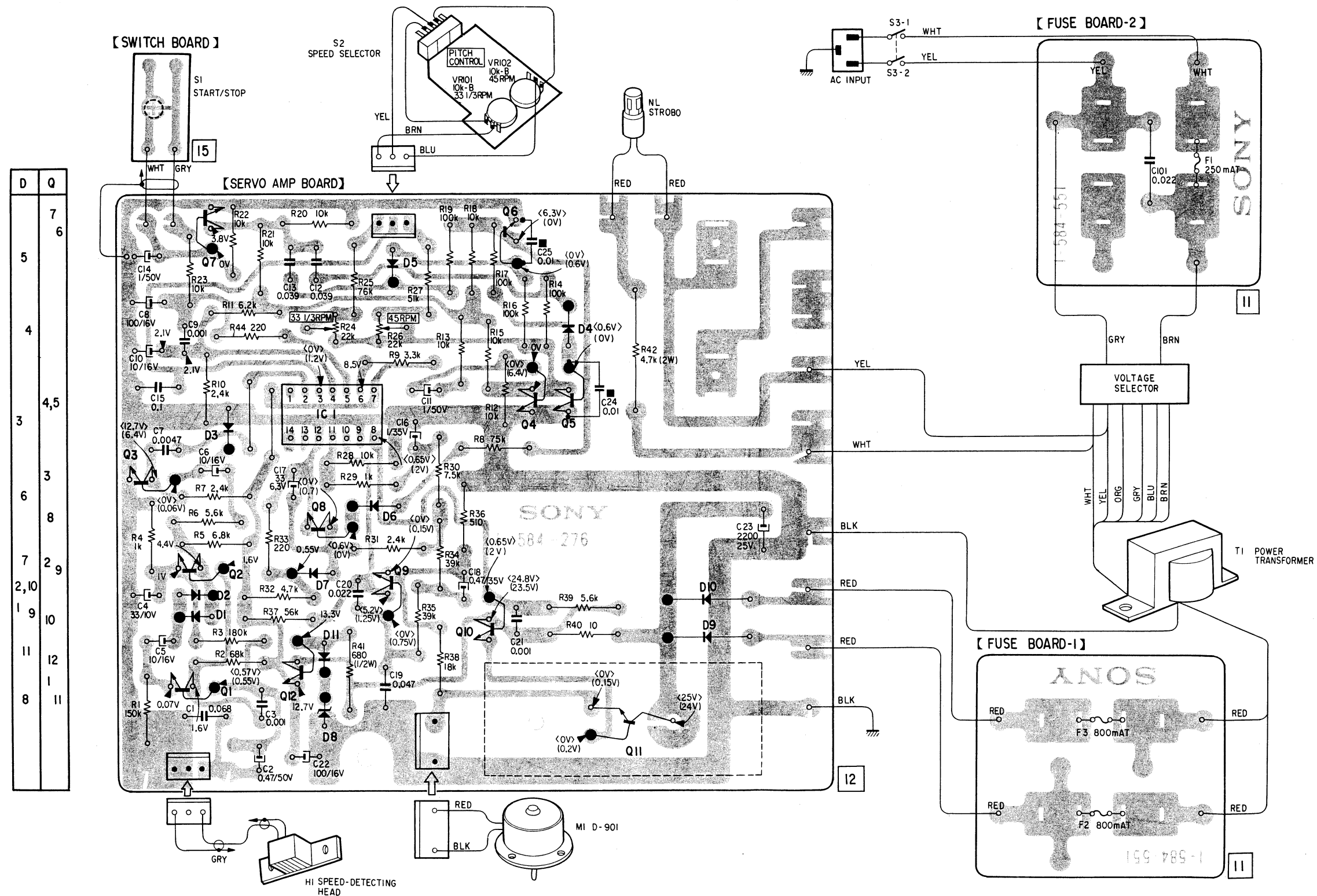
Note: All resistance values are in ohms. k = 1,000, M = 1,000 k.
All capacitance values are in μ F except as indicated with p, which means μ F.
All voltages are dc measured with a VOM which has an input impedance of 20 k ohms/volt. No signal in.
Voltage variations may be noted because of normal production tolerances.

< : Measured with S3 set to ON, and with S1 set to STOP.
() : Measured when the turntable is turning at 33 1/3 rpm or 45 rpm correctly.
— indicates B + circuit.

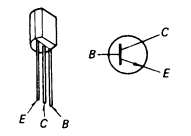
Ref. No.	Description	Position
S1	START/STOP	STOP
S2	SPEED SELECTOR	33 1/3
S3-1~2	POWER	OFF

4-2. MOUNTING DIAGRAM

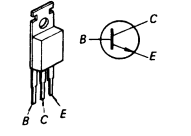
— Conductor Side —



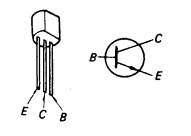
Q1~10: 2SC945



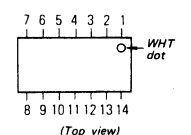
Q11: 2SC1173



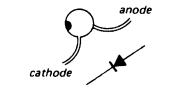
Q12: 2SC1383R



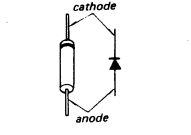
IC1: CX-032B



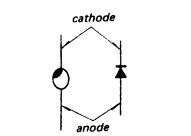
D1, 2, 11: VD-1220



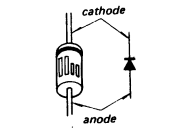
D3~6: 1S1555



D7: MV-5



D8: EQA01-13R
D9, 10: SIB01-02

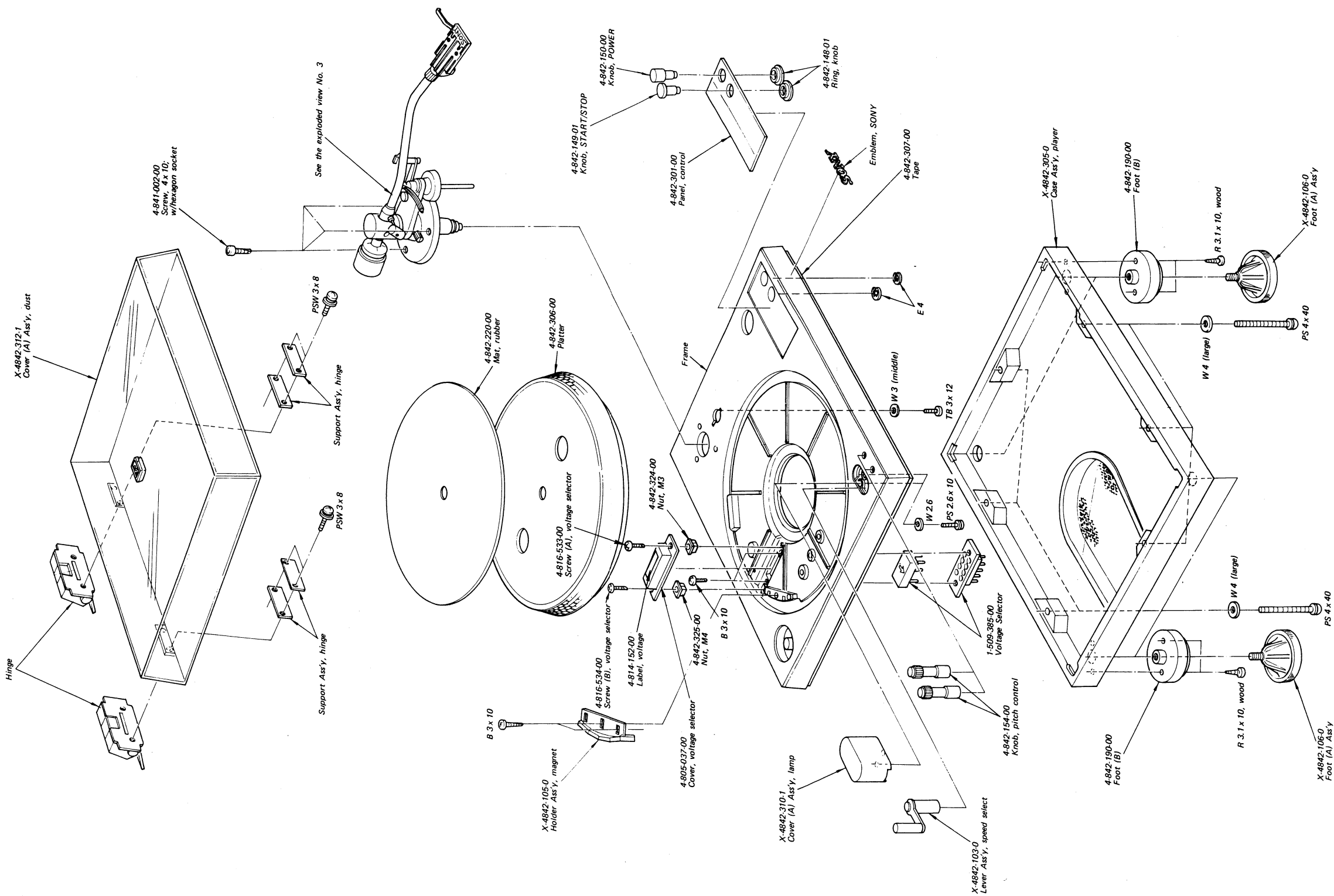
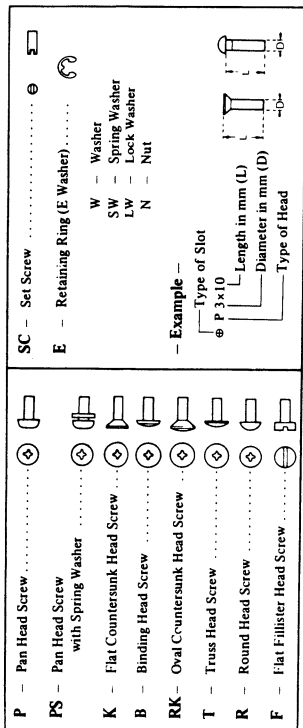


Note: ■ indicates the parts on the conductor side.
— indicates lead wire connection on the conductor side.
○ indicates lead wire connection through the component side.

SECTION 5

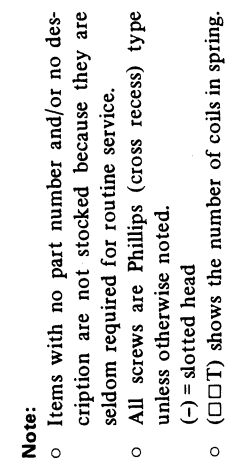
EXPLODED VIEWS

(1).



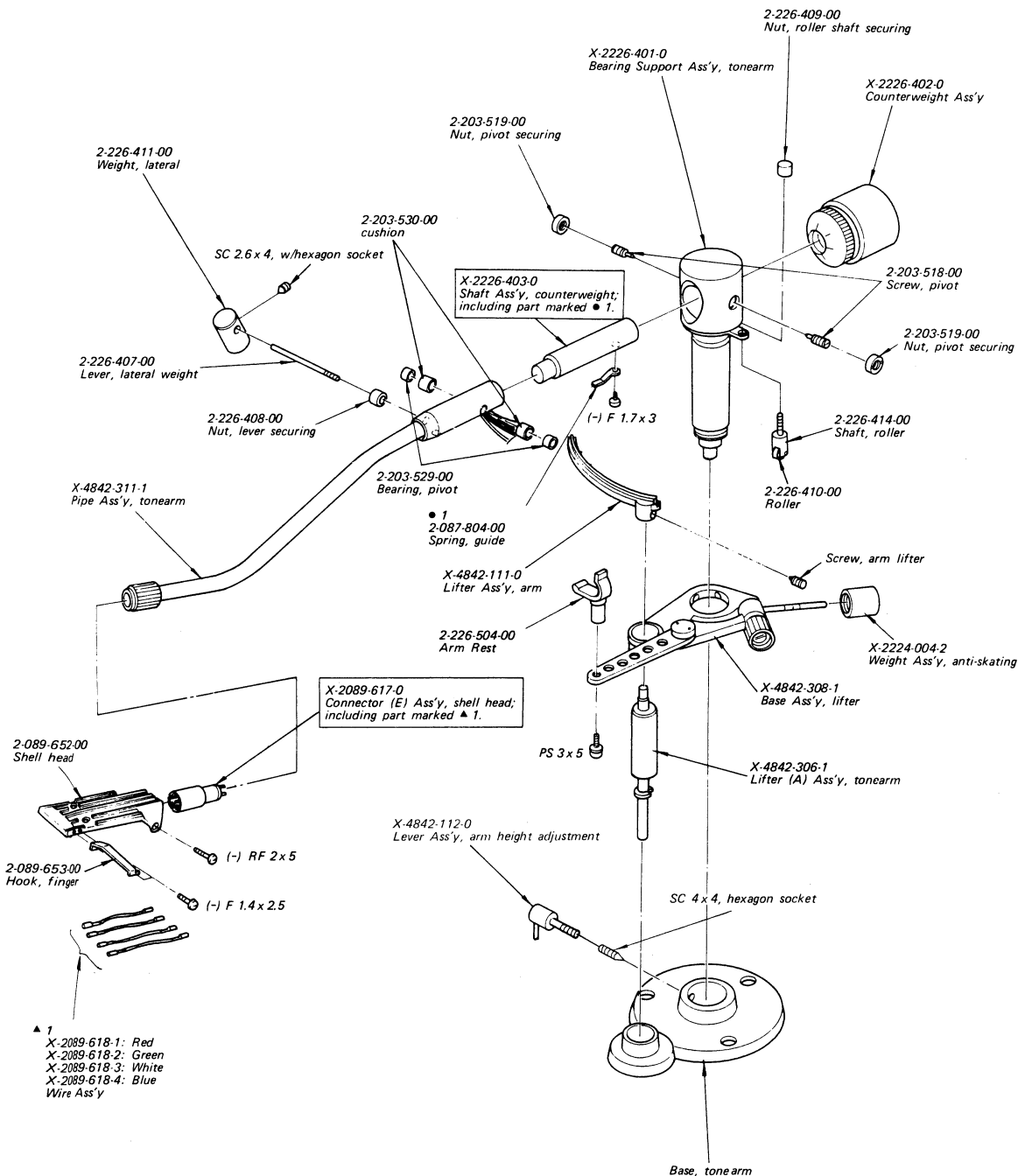
Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
- (-) = slotted head
- (□□T) shows the number of coils in spring.



SECTION 6
ELECTRICAL PARTS LIST

(3).



- Note:**
- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
 - All screws are Phillips (cross recess) type unless otherwise noted.
 - (-) = slotted head
 - (□□T) shows the number of coils in spring.

Ref. No. Part No. Description

CIRCUIT BOARDS

A-4619-006-A Servo Amplifier, complete

1-582-286-00 Switch
1-584-551-00 Fuse 1, 2

SEMICONDUCTORS

Q1~10 Transistor 2SC945
Q11 Transistor 2SC1173
Q12 Transistor 2SC1383R

IC1 IC CX-032B

D1,2 Diode VD-1220
D3~6 Diode 1S1555
D7 Diode MV-5
D8 Diode EQA01-13R
D9,10 Diode S1B01-02
D11 Diode VD-1220

TRANSFORMER

T1 1-442-454-11 Power

CAPACITORS

All capacitors are in μF unless otherwise indicated. 50 or less working volts are omitted except for electrolytic type. (elect = electrolytic, p = μpF)

C1 1-108-847-12 0.068 mylar
C2 1-121-726-11 0.47 50 V elect
C3 1-108-825-12 0.001 mylar
C4 1-121-402-11 33 10 V elect
C5,6 1-121-651-11 10 16 V elect

C7 1-108-833-12 0.0047 mylar
C8 1-121-415-11 100 16 V elect
C9 1-108-825-12 0.001 mylar
C10 1-121-651-11 10 16 V elect
C11 1-121-391-11 1 50 V elect

C12,13 1-108-844-12 0.039 mylar
C14 1-121-391-11 1 50 V elect

Ref. No. Part No. Description

C15 1-108-816-12 0.1 mylar
C16 1-131-215-11 1 35 V tantalum
C17 1-131-229-61 33 6.3 V tantalum
C18 1-131-213-11 0.47 35 V tantalum
C19 1-108-845-12 0.047 mylar

C20 1-105-677-12 0.022 mylar
C21 1-108-825-12 0.001 mylar
C22 1-121-415-11 100 16 V elect
C23 1-123-067-11 2200 25 V elect
C24,25 1-105-673-12 0.01 mylar
C101 1-129-735-11 0.022 polypropylene

RESISTORS

All resistors are in ohms. Regular type $\frac{1}{4}$ W carbon and composition resistors are omitted. Check schematic diagram for the resistance values. k = 1,000, M = 1,000 k

R24,26 1-221-979-11 22 k, adjustable
R41 1-244-869-11 680 $\frac{1}{2}$ W carbon
R42 1-206-697-11 4.3 k 2 W metal oxide
VR101,102 1-222-446-00 10 k (B), variable; PITCH CONTROL

SWITCHES

S1 Included in Contact, START/STOP
S2 1-516-288-00 Lever-Slide, SPEFD SELECTOR
S3 1-514-812-11 Micro, POWER

JACKS

1-508-706-00 Connector, 2 p
1-508-742-00 Connector, 3 p
1-509-547-00 3 p Inlet

MISCELLANEOUS

F1 1-532-273-00 Fuse, 250 mA
F2,3 1-532-215-00 Fuse, 800 mA
H1 1-543-066-00 Head
M1 8-834-901-00 Motor, D-901
NL 1-519-058-43 Lamp, neon; strobo
1-509-385-00 Voltage Selector
1-536-398-00 Terminal Strip, 2L2

Part No. Description

HARDWARE

SCREWS

All screws are Phillips (cross recess) type
unless otherwise indicated. (-): slotted head

7-621-303-25	(-) F 1.7 x 3
7-621-712-17	SC 2.6 x 2, w/hexagon socket
7-621-712-37	SC 2.6 x 4, w/hexagon socket
7-621-731-34	SC 3 x 5, w/hexagon socket
7-621-843-29	R 3.1 x 10, wood
7-628-254-32	PS 2.6 x 10
7-681-623-13	(-) F 2 x 3
7-682-148-01	P 3 x 8
7-682-150-01	P 3 x 12
7-682-253-92	PS 2.6 x 4
7-682-548-04	B 3 x 8
7-682-645-01	PS 3 x 4
7-682-646-01	PS 3 x 5
7-682-660-01	PS 4 x 6
7-682-670-01	PS 4 x 40
7-682-846-04	BS 3 x 5
7-682-946-01	PSW 3 x 5
7-682-950-01	PSW 3 x 12

Part No. Description

7-682-951-01	PSW 3 x 14
7-682-965-01	PSW 4 x 16
7-683-237-32	SC 3 x 3, w/hexagon socket
7-683-238-32	SC 3 x 4, w/hexagon socket
7-685-163-21	P 4 x 16, self-tapping
7-685-547-21	TB 3 x 10

WASHERS

7-623-105-22	W 2 (large)
7-623-108-18	W 3
7-623-110-25	W 4 (large)

RETAINING RINGS

7-624-102-01	E 1.5
7-624-106-01	E 3

MISCELLANEOUS

7-622-210-02	Nut N 4
7-623-505-01	Lug
7-626-308-91	Pin
7-671-102-00	Steel Ball

ACCESSORIES

<u>Part No.</u>	<u>Description</u>
X-2089-619-2	Screw, cartridge
X-4842-302-0	Support Weight Ass'y
1-551-085-00	Cord, with connector (male)
2-089-697-00	Screwdriver, blade
3-701-806-00	Adaptor, 45 rpm
3-780-753-11	Manual, instruction
3-793-395-13	Card, alignment protractor
3-793-528-82	Card, guaranty (UK model)
4-842-326-00	Holder, turntable
4-842-327-00	Protector